ABSTRACT OF THE DISCLOSURE

An electrolyte membrane/electrode assembly 9 of a solid polymer electrolyte fuel cell includes an electrolyte membrane 2, and an air pole 3 and a fuel pole 4 provided to sandwich the electrolyte membrane 2 therebetween. Each of the electrolyte membrane, the air pole and the fuel pole includes a polymer ion-exchange component. The electrolyte membrane/electrode assembly has an ion-exchange capacity Ic in a range of 0.9 meq/g \leq Ic \leq 5 meq/g, and a dynamic viscoelastic modulus at 85°C in a range of 5 x 10⁸ Pa \leq Dv \leq 1 x 10¹⁰ Pa. In the electrolyte membrane/electrode assembly 9, a high power-generating performance can be maintained at an operating temperature not lower than 85°C.